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The balance of inorganic nitrogen in the basins of small rivers (On the example of the watershed Northern Dvina)

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Abstract

© 2016,International Journal of Pharmacy and Technology. All rights reserved.In article features of nitrogen circulation transformation as a result of influence of anthropogenous factor on the example of the small river basin of the river Northern Dvina are considered. Relevance of research is confirmed by a number of negative processes common to the present stage of humanity development over its expense caused by excess of nitrogen inflow to the biosphere. The method of balance which allows to objectively estimate a contribution of economic activity and extent of transformation of nitrogen circulation is the cornerstone of anthropogenous nitrogen component allocation. The structure analysis of received inorganic nitrogen balance part showed that 80 - 97% of the nitrogen amount arriving on reservoirs are the share of atmospheric precipitation. Even in the low-developed territories,with insignificant anthropogenous influence,the transformation of biogeochemical nitrogen circulation which is expressed in accumulation of this component is noted. The circulating air streams are the main distributors of nitrogen influencing its natural cycle. Thus,cross-border transfer of the polluting substances represents one of priority and relevant environmental problems of the present.

Keywords

Anthropogenic factor, Nitrogen balance, Nitrogen cycle, Watershed